

The listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. **(Currently Amended)** An optical waveguide fiber comprising:
  - a core; and
  - a cladding surrounding the core,
  - wherein the cladding contains at least 190 ppm water within at least 20% of its outer periphery in a radial direction; and
  - wherein the optical waveguide fiber is comprised of glass.
2. **(Original)** The optical waveguide fiber according to Claim 1 wherein the cladding contains substantially no chlorine.
3. **(Original)** The optical waveguide fiber according to Claim 1 wherein the cladding contains no chlorine.
4. **(Original)** An optical fiber coupler comprising at least one fiber according to Claim 1.
5. **(Original)** An optical waveguide fiber comprising:
  - a core, and
  - a cladding surrounding the core,
  - wherein the cladding comprises an inner cladding and an overlcladding, and
  - wherein at least a portion of the overlcladding contains at least 300 ppm water.
6. **(Original)** The optical waveguide fiber according to Claim 2 wherein at least a portion of the overlcladding contains at least 350 ppm water.
7. **(Original)** An optical fiber coupler comprising at least one fiber according to Claim 5.

8. **(Currently Amended)** An optical waveguide fiber comprising:  
a core; and  
a cladding surrounding the core, wherein at least a portion of the cladding contains at least 300 ppm water;  
wherein the optical waveguide fiber is comprised of glass.
9. **(Original)** An optical fiber coupler comprising at least one fiber according to Claim 8.
10. **(Original)** A first optical waveguide body of fused silica material for fusing to at least one other optical waveguide body of fused silica material, the first body comprising a contact surface, wherein at least a portion of the contact surface is capable of being fused to the at least one other body, wherein the first body contains at least 150 ppm water at or near the contact surface, and wherein at least a portion of the first optical waveguide body contains at least 300 ppm water.
11. **(Original)** The first optical waveguide body according to Claim 10 wherein the first optical waveguide body contains at least 190 ppm water at or near the contact surface.
12. **(Original)** The first optical waveguide body according to Claim 10 wherein at least a portion of the first optical waveguide body contains at least 350 ppm water.
13. **(Original)** The first optical waveguide body according to Claim 10 wherein the contact surface is substantially planar.
14. **(Original)** The first optical waveguide body according to Claim 10 wherein the contact surface is curved.
15. **(Original)** An optical fiber coupler comprising the first optical waveguide body according to Claim 10.

16. **(Original)** An optical fiber coupler comprising:

a plurality of optical waveguide fibers, each fiber having at least a portion fused to the other fibers, wherein at least one of the fibers comprises an overclad region surrounding the core, wherein at least a portion of the overclad region is doped with H<sub>2</sub>O and/or D<sub>2</sub>O.

17. **(Original)** The optical fiber coupler according to Claim 16 wherein at least a portion of the overclad region contains at least one other dopant selected from the group consisting of GeO<sub>2</sub>, B<sub>2</sub>O<sub>3</sub>, and F.

18. **(Canceled)**

19. **(Canceled)**

20. **(Withdrawn)** A method of forming an optical waveguide fiber preform comprising the steps of:

providing a core cane;

depositing a sooty overclad layer on the core cane to form a sooty overclad preform;

doping the sooty overclad layer to form a doped sooty overclad preform; and

sintering the doped sooty overclad preform to form a glassy optical waveguide fiber preform;

wherein the doping step comprises selectively adding water to the sooty overclad layer.

21. **(Withdrawn)** The method according to Claim 20 wherein the sooty overclad layer is not dried.

22. **(Withdrawn)** The method according to Claim 20 wherein the sooty overclad layer is not dried with chlorine.

23. **(Withdrawn)** The method according to Claim 20 wherein the doping step further comprises exposing the sooty overlaid layer to H<sub>2</sub>O and/or D<sub>2</sub>O.
24. **(Withdrawn)** The method according to Claim 20 wherein the doping step comprises exposing the sooty overlaid layer to higher than ambient humidity.
25. **(Withdrawn)** The method according to Claim 20 wherein the doping occurs in an elevated temperature chamber.
26. **(Withdrawn)** The method according to Claim 20 wherein the doping step further comprises exposing the sooty overlaid layer to at least one dopant selected from the group consisting of GeO<sub>2</sub> and B<sub>2</sub>O<sub>3</sub>.
27. **(Withdrawn)** The method according to Claim 20 wherein the doping step further comprises exposing the sooty overlaid layer to at least two dopants selected from the group consisting of GeO<sub>2</sub>, B<sub>2</sub>O<sub>3</sub>, and F.
28. **(Withdrawn)** A method of forming an optical waveguide fiber preform comprising the steps of:
- providing a core cane;
  - depositing a sooty overlaid layer on the core cane to form a sooty overlaid preform;
  - doping the sooty overlaid layer with at least two dopants to form a doped sooty overlaid preform; and
  - sintering the doped sooty overlaid preform to form a glassy optical waveguide fiber preform.
29. **(Withdrawn)** The method according to Claim 28 wherein the doping step comprises selectively adding water to the sooty overlaid layer.

30. **(Withdrawn)** The method according to Claim 29 wherein the doping step further comprises exposing the sooty overclad layer to  $H_2O$  and/or  $D_2O$ .

31. **(Withdrawn)** The method according to Claim 28 wherein the sooty overclad layer is doped with dopants selected from the group consisting of  $GeO_2$ ,  $B_2O_3$ , F and Cl.

32. **(Withdrawn)** A method of forming an optical fiber comprising drawing the preform of Claim 20 or 30 into the optical fiber.

33. **(Withdrawn)** A method of forming an optical waveguide fiber comprising the steps of:

- providing a silica soot tube;
- doping the silica soot tube;
- sintering the silica soot tube into a doped fused silica tube;
- depositing soot material inside the doped fused silica tube to form a doped-overclad soot preform; and
- sintering and drawing the doped-overclad soot preform into the optical waveguide fiber.

34. **(Withdrawn)** The method according to Claim 33 wherein the step of sintering and drawing further comprises sintering the doped-overclad soot preform to form a glassy optical waveguide fiber preform, then drawing the glassy optical waveguide fiber preform into the optical waveguide fiber.

35. **(Withdrawn)** The method according to Claim 33 wherein the doping step comprises selectively adding water to the silica soot tube.

36. **(Withdrawn)** The method according to Claim 35 wherein  $H_2O$  and/or  $D_2O$  is selectively added to the silica soot tube.

37. **(Original)** An optical fiber coupler comprising at least one optical fiber having a core and a cladding surrounding the core, wherein the cladding contains at least 50 ppm water at or near the outer periphery of the cladding.

38. **(Original)** The optical fiber coupler according to Claim 37 wherein the cladding contains at least 100 ppm water at or near the outer periphery of the cladding.

39. **(Original)** The optical fiber coupler according to Claim 37 wherein the optical fiber contains at least 190 ppm water within at least 20% of the outer periphery of the optical fiber in a radial direction.

40. **(Original)** An optical fiber coupler comprising at least one optical fiber having a core and a cladding surrounding the core, wherein at least a portion of the cladding contains more than 250 ppm water.

41. **(Original)** The optical fiber coupler according to Claim 40 wherein at least a portion of the cladding contains at least 300 ppm water.

42. **(Original)** The optical fiber coupler according to Claim 40 wherein at least a portion of the cladding contains at least 350 ppm water.

43. **(New)** An optical fiber coupler comprising at least one fiber comprising:

a core; and

a cladding surrounding the core,

wherein the cladding contains at least 190 ppm water within at least 20% of its outer periphery in a radial direction.

44. **(New)** An optical fiber coupler comprising at least one fiber comprising:

a core; and

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a cladding surrounding the core, wherein at least a portion of the cladding contains at least 300 ppm water.